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PATENT ABSTRACTS OF JAPAN

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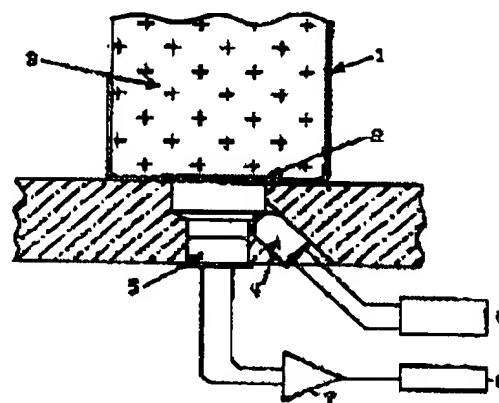
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(54) DEVICE FOR DETECTING MICROORGANISM AND DETECTION OF MICROORGANISM

(57)Abstract:

PURPOSE: To detect microorganisms by a non-radioactive and non-invasive means by culturing a specimen in a culture medium in a transparent sealed vessel and detecting change in the pH of the specimen and change in the concentration of produced CO₂ from the outside of the vessel.

CONSTITUTION: This method for detecting microorganisms comprises culturing a specimen in a sterilized culture medium in a transparent sealed vessel 1 and subsequently detecting or measuring change in the pH of the specimen and change in the concentration of produced CO₂ by the use of a sensor 2 fixed to the inner surface of the vessel or to a vessel-sealing means. Even when erythrocytes are contained in the specimen in a high concentration, microorganisms in a clinical specimen or a non-clinical specimen can be detected in a non-invasive state.



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